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SNOW SURVEYS and WATER SUPPLY OUTLOOK for ALASKA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
ALASKA SOIL CONSERVATION DISTRICT

Data included in this report were obtained by the agencies named above in cooperation
with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1977

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bismarck, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



FEDERAL - STATE - PRIVATE

SNOW SURVEYS

AND

WATER SUPPLY OUTLOOK

FOR

ALASKA

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WASHINGTON, D.C.

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COLORADO CREEK SNOW PILLOW SITE

ALASKA SUMMARY
as of
MARCH 1, 1977

Snowfall during February was generally below the average expected for the month. Exceptions were at high elevations along the Gulf Coast and around the Copper River Basin where previously heavy snowpacks became heavier.

Forecasts of this spring's snowmelt runoff indicate that Fairbanks area streams will be well below normal while Anchorage area streams will be well above normal.

The area by area summary is as follows:

KOYUKUK DRAINAGE

The headwaters of the Koyukuk Drainage are slightly above normal while the foothills of the Brooks Range are below normal. This is about the same as it was a year ago. Key courses, Bettles Field and Anaktuvuk Pass, were not measured this time due to foul weather during the survey trip.

UPPER YUKON DRAINAGES

The snowpack of the east end of the Brooks Range is generally well above average, the Yukon Flats about average and south of the flats below average. Considerably more snow was recorded at all locations than at this time a year ago. Below average conditions extend into the Upper Yukon Basin in Canada.

KUSKOKWIM DRAINAGE

The winter's snowpack at Farewell and Lake Minchumina is about half of average for the last nine years and about the same as it was last year at this time.

TANANA-CHENA DRAINAGES

Snow in the Upper Tanana Valley is well below normal for March 1st, but mountain pass snow courses to the south indicate the pack to be well above normal at higher elevations of the Alaska Range.

Snowfall for February was near average for the month in the Chena River - Fairbanks area. Streamflow in the Chena River is forecast to run only 68% of the recent 15 year average for the April through July period, but slightly more than actually ran off for the same period last year.

COPPER DRAINAGE

Conditions remain pretty similar to those reported one month ago. The Basin itself has generally a normal snowpack, while the surrounding mountains are way above normal. Worthington Glacier snow course near Thompson Pass is maximum of record for March 1st for the last 20 years.

MATANUSKA-SUSITNA DRAINAGES

Current conditions in the Upper Susitna Drainage are the same as described for the Copper Drainage. Snowfall during February was about average in the Upper Susitna, but below average in the Lower Susitna Valley. The lower valley, however, remains under an above average snowcover with some areas such as Alexander Lake and Petersville being very heavy. The snowpack is also heavy in the Chugach and Talkeetna mountains that drain into the Matanuska River.

UPPER COOK INLET

Snowpack in the Ship Creek headwaters remains very heavy while median elevations are about average and the valley floor below average. Snowmelt runoff for the April-July period is expected to be 80,000 acre-feet, which is 35 percent above average.

KENAI PENINSULA DRAINAGES

Snowfall during February was well below the normal monthly increment. Snow courses at Bertha Creek near Turnagain Pass and Kenai Summit near Summit Lake still show a heavy snowpack, but much less percentagewise than a month ago. Courses at lower elevations are bare. The Bridge Creek courses in back of Homer are well above average also.

SOUTHEASTERN DRAINAGES

Overall, the snowpack here is far below normal due to the abnormally mild winter.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
YUKON RIVER at Eagle	27,400	80%	April-July	35,920	34,925
PORCUPINE RIVER near Ft. Yukon	7,600	108%	April-July	8,949	7,200*
SALCHA RIVER near Salchaket	500	65%	April-July	428	767
CHENA RIVER at Fairbanks	382	68%	April-July	348	560
LITTLE CHENA RIVER near Fairbanks	67	72%	April-July	69	93*
YUKON RIVER at Ruby	64,000	95%	April-July	58,420	67,012
SHIP CREEK near Anchorage 1/	80	135%	April-July	54	59
SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	19.5	130%	April-July	12.5	15.0
1/ Measured flow adjusted for diversion.					
2/ Provisional data, subject to revision.					
* Estimated.					

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD					
	NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)			
				Water Content (Inches)	Years of Previous Record	Last Year	Average +		
AS OF FEB. 15, 1977									
<u>TANANA-CHENA:</u>									
Caribou Mine	55	1115	2/14	16a	3.0e	3.0e	5.0	8	
Cleary Summit	64	2230	2/14	26a	4.9e	4.7e	6.1	8	
Little Chena	62	2200	2/14	26a	4.9e	3.7e	5.2	8	
Lower Chena	59	2000	2/14	21a	3.9e	---	---	---	
Mt. Ryan	61	2950	2/14	29a	5.4e	4.4e	6.4	8	
Munson Ridge	56	3100	2/14	29a	5.5e	8.6e	10.2	8	
Teuchet Creek	57	1640	N 0	S U R V	E Y	---	---	---	
Upper Chena	58	3000	2/14	29a	5.5e	4.2e	7.1	8	
AS OF MARCH 1, 1977									
<u>KOYUKUK DRAINAGE:</u>									
Anaktuvuk Pass	75	2100	N 0	S U R V	E Y	2.7	2.8	8	
Bettles Field	74	640	N 0	S U R V	E Y	5.1	6.5	10	
Cold Foot Camp	109	1000	3/2	27	4.6	4.7	6.6	6	
Dietrich Camp	110	1550	3/2	23	4.1	3.6	3.8	6	
Lake Todatonten	73	980	N 0	S U R V	E Y	4.5e	5.0	9	
Prospect Creek Camp	108	980	3/2	26	4.6	5.3	6.0	5	
Table Mountain	111	2200	3/2	23	3.9	3.8	3.5	5	
<u>YUKON DRAINAGE:</u>									
Arctic Village	78	2300	2/25	29	5.0	2.4	3.0	13	
Black River	84	650	2/25	25	3.8	2.9	3.8	12	
Boundary	90	3300	2/27	20a	3.3e	3.2e	4.3	10	
Chandalar Lake	76	2040	2/24	26	4.3	2.9	3.1	11	
Chicken Airstrip	91	1650	2/27	14	2.2	1.7	2.7	12	
Circle City	85	600	2/27	30	3.6	2.7	3.8	12	
Circle Hot Springs	86	860	2/26	26	4.2	1.9	---	1	
Coleen River	80	1100	2/25	20a	3.2e	2.2e	2.8	12	
Dempsey Creek	87	950	2/29	29a	4.5e	2.3e	4.0	8	
Eagle Village	89	900	2/27	20	3.1	3.0	4.1	12	
a - aerial marker reading				e - estimated			N/S - No Survey		

+ 1958-1972 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD		
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	Years of Previous Record	
YUKON DRAINAGE Continued:						Least Year	Average [†]	
Five Mile	106	400	3/2	28	5.4	3.2	4.3	6
Fort Yukon	83	430	2/24	24	3.4	2.6	3.2	12
Koness Lake	79	1790	2/25	20	3.2	2.3	2.8	10
Log Cabin	105	2880	2/26	43	12.9	14.0	11.6	16
Mt. Fairplay	92	3100	2/27	14a	2.4e	2.6e	3.6	7
Nation River	88	3050	N O	S U R V	E Y	N/S	5.6	6
Squaw Lake	77	2150	2/24	25a	4.1e	2.6e	3.1	10
Thirty Mile	107	1300	3/2	34	7.2	N/S	---	3
Venetie	82	610	2/24	24a	3.2e	2.6e	2.6	12
Vundik Lake	81	950	2/25	20a	3.2e	2.6e	2.6	9
KUSKOKWIM DRAINAGE:								
Farewell Lake	70	1090	2/23	13	2.5	2.3	3.1	9
Lake Minchumina	71	730	2/23	15	2.2	2.2	4.1	10
TANANA-CHENA:								
Big Delta	52	980	3/1	8	1.4	2.0	2.9	16
Bonanza Creek	66	1150	2/28	18	3.4	2.1	4.3	9
Caribou Creek	68	1440	3/2	18	3.5	4.4	4.3	6
Caribou Mine	55	1115	2/28	17	3.2	3.2	5.0	11
Cleary Summit	64	2230	2/28	24	4.9	5.1	5.9	16
Colorado Creek	63	750	2/28	18	3.3	2.6	4.5	11
Fielding Lake	49	3000	3/2	55	13.7	6.7	8.5	14
Fort Greely	50	1420	3/1	5	0.4	2.2	3.2	10
French Creek	53	2010	3/1	14	2.8	2.9	5.9	14
Granite Creek	51	1240	3/3	12	2.0	2.2	3.0	9
Haystack Mountain	67	1950	3/2	26	4.3	5.7	5.9	6
Little Chena	62	2200	2/28	25	5.1	4.4	5.4	12
Little Salcha	54	1500	3/1	12	2.3	2.6	5.2	14
Lower Chena	59	2000	2/28	23	4.3	---	---	---
Mentasta Pass	47	2430	3/2	33	7.7	3.0	4.8	14
Monument Creek	60	1900	N O	S U R V	E Y	3.7	4.5	4
Mt. Ryan	61	2950	2/28	28	5.8	4.9	6.4	12
Munson Ridge	56	3100	N O	S U R V	E Y	8.5	10.4	13
Poker Creek (CRREL)	69	1025	3/2	17	3.0	3.6	4.0	6
Teuchet Creek	57	1640	2/28	21	4.1	2.5	3.7	4
Tok Junction	46	1650	3/2	15	2.3	2.3	3.1	16
Upper Chena	58	3000	2/28	31	6.0	N/S	7.6	9
Wien Lake	72	1020	2/23	16	2.2	2.6	3.8	9
Yak Pasture	65	540	2/28	17	3.0	2.2	4.1	15
COPPER RIVER:								
Haggard Creek	48	2540	3/2	38	8.7	2.4	4.5	12
Little Nelchina	31	4160	3/1	29a	5.8e	3.2e	4.5	9
Mankomen Lake	45	3050	3/2	42	9.0	N/S	5.6	10
St. Anne's Lake	28	1990	2/27	22	4.6	3.4	4.3	12
Sanford River	27	2280	2/27	19a	3.9e	3.4e	4.5	10
Tsaina River	35	1500	2/24	77	22.0	11.5	12.1	4
Worthington Glacier	36	2400	2/24	103	32.4	18.5	15.5	10

a aerial marker reading

e - estimated

N/S - No Survey

+ 1958-1972 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD		
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Years of Previous Record	
			Last Year	Average	+			
<u>MATANUSKA-SUSITNA:</u>								
Alexander Lake	18	200	2/28	40	13.3	6.6	9.4	13
Bald Mountain Lake	23	2150	2/28	41a	9.4e	3.6	5.8	12
Chelatna Lake	20	1650	2/28	29a	7.8e	8.0e	8.5	13
Clearwater Lake	26	3100	2/28	23	4.6	2.7e	4.7	11
Devils Canyon	121	1350	2/28	36a	7.0e	---	---	---
Fog Lakes #2	24	2250	2/28	27	5.9	2.8	5.2	7
Independence Mine	33	3300	2/25	60	20.3	14.0	13.4	10
Lake Louise	29	2400	2/28	21	3.7	2.1	3.6	11
Monahan Flat	25	2710	2/28	32a	6.7e	4.4	6.2	12
Oshetna Lake	30	2950	3/1	20	3.4	2.2	3.3	12
Peters Hills	21	2010	2/28	59a	16.5e	10.8e	12.1	9
Sheep Mountain #2	34	2900	2/24	31	5.4	3.8	4.2	4
Skwentna	19	160	2/28	41	10.2	6.6	8.2	10
Talkeetna	22	350	2/28	24	7.1	5.8	6.9	10
Willow Airstrip	32	150	3/1	22	6.5	4.0	5.9	13
<u>UPPER COOK INLET:</u>								
Arctic Ski 8owl	5	3000	2/25	35	12.4	7.4	10.3	13
Arctic Valley #1	1	500	2/25	Tr.	0.0	1.6	3.0	13
Arctic Valley #2	2	1000	2/25	3	0.9	1.8	3.1	13
Arctic Valley #3	3	2030	2/25	23	6.7	4.1	5.2	13
Arctic Valley #4	4	2330	2/25	24	7.0	4.8	5.7	13
8ird Creek	8	2350	3/4	46	16.7	12.2	13.6	10
Indian Pass	7	2350	3/4	83	29.5	15.3	16.4	10
McArthur	17	120	2/28	50a	15.0e	N/S	17.4	12
Mt. Alyeska	10	1200	3/2	128	50.0	29.0	27.0	4
Ship Creek	6	1750	3/4	30	9.4	8.2	8.9	10
South Campbell Creek	9	1200	N O	S U R V E Y		3.2	5.9	4
<u>PRINCE WILLIAM SOUND:</u>								
Lowe River	37	550	2/24	64	21.0	13.5	13.4	4
Valdez	38	50	2/24	66	24.3	15.7	14.6	4
<u>KENAI PENINSULA:</u>								
8ertha Creek	11	850	2/24	48	16.9	12.6	11.4	7
8ridge Creek, Lower	16	1100	3/2	40	12.6	9.0	10.5	5
8ridge Creek, Upper	15	1300	3/2	41	12.3	9.6	10.1	5
Jean Lake	14	620	2/24	0	0.0	3.0	3.1	7
Kenai Summit	12	1390	2/24	49	15.6	8.7	9.3	7
Moose Pass	13	700	2/24	0	0.0	5.9	5.0	7
<u>SOUTHEAST ALASKA:</u>								
Cropley Lake	94	1650	3/1	61	20.2	---	---	---
Douglas Ski 8owl	93	1640	3/1	79	28.4	48.5	36.3	9
Eagle Crest	95	1000	3/1	24	6.0	---	---	---
Fish Creek	96	500	3/1	Tr.	0.0	---	---	---
Harriet Top	102	2000	Delayed	Report		51.0	53.1	4
Hunt Saddle	103	1500	Delayed	Report		33.8	40.9	4
Lake Shore	104	660	Delayed	Report		19.4	28.2	4
Speel River	98	280	Delayed	Report		N/S	34.5	12
a - aerial marker reading			e - estimated			N/S - No Survey		

+ 1958-1972 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	THIS YEAR			PAST RECORD		
NAME	Number	Elevation				Last Year	Average +	Years of Previous Record			
<u>NORTH SLOPE:</u>						INCREMENT SINCE LAST READING			ACCUMULATIVE TOTAL		
* "Wyoming" Precipitation Gages			DATE								
Barrow	115	15	9/20 10/20 11/23 12/23 1/22	Initial	Reading .6 1.1 .4 1.0				.6 1.7 2.1 3.1		
Barter Island	117	15	10/4 11/6 11/22 12/21	Initial	Reading 1.2 .2 1.6				1.2 1.4 3.0		
Candle	119	20	12/30	Initial	Reading						
Kavik	118	200	10/6 11/4 11/26 12/27	Initial	Reading .8 .1 1.0				.8 .9 1.9		
Kugruk River	120	225	9/18 12/30	Initial	Reading 2.6				2.6		
Jago River	122		10/6 11/7 11/22 12/21	Initial	Reading 1.3 .4 1.2				1.3 1.7 2.9		
Meade River	116	200	9/20 10/21 11/23 12/23 1/21	Initial	Reading 1.0 .2 .4 1.4				1.0 1.2 1.6 3.0		
Point Hope	123	20	11/3 12/9 2/5 2/12	Initial	Reading .2 .2 .1				.2 .4 .5		
Prudhoe Bay	114	30	8/3 11/7 11/23 12/27	Initial	Reading 1.3 .3 .8				1.3 1.6 2.4		
Sagwon	113	1000	11/11 1/26 2/27	Initial	Reading 1.6 .4				1.6 2.0		
Toolik River	112	3100	9/20 11/11 1/26 2/28	Initial	Reading 1.6 1.4 .3				1.6 3.0 3.3		
a - aerial marker reading e - estimated			N/S - No Survey								

a - aerial marker reading e - estimated

N/S - No Survey

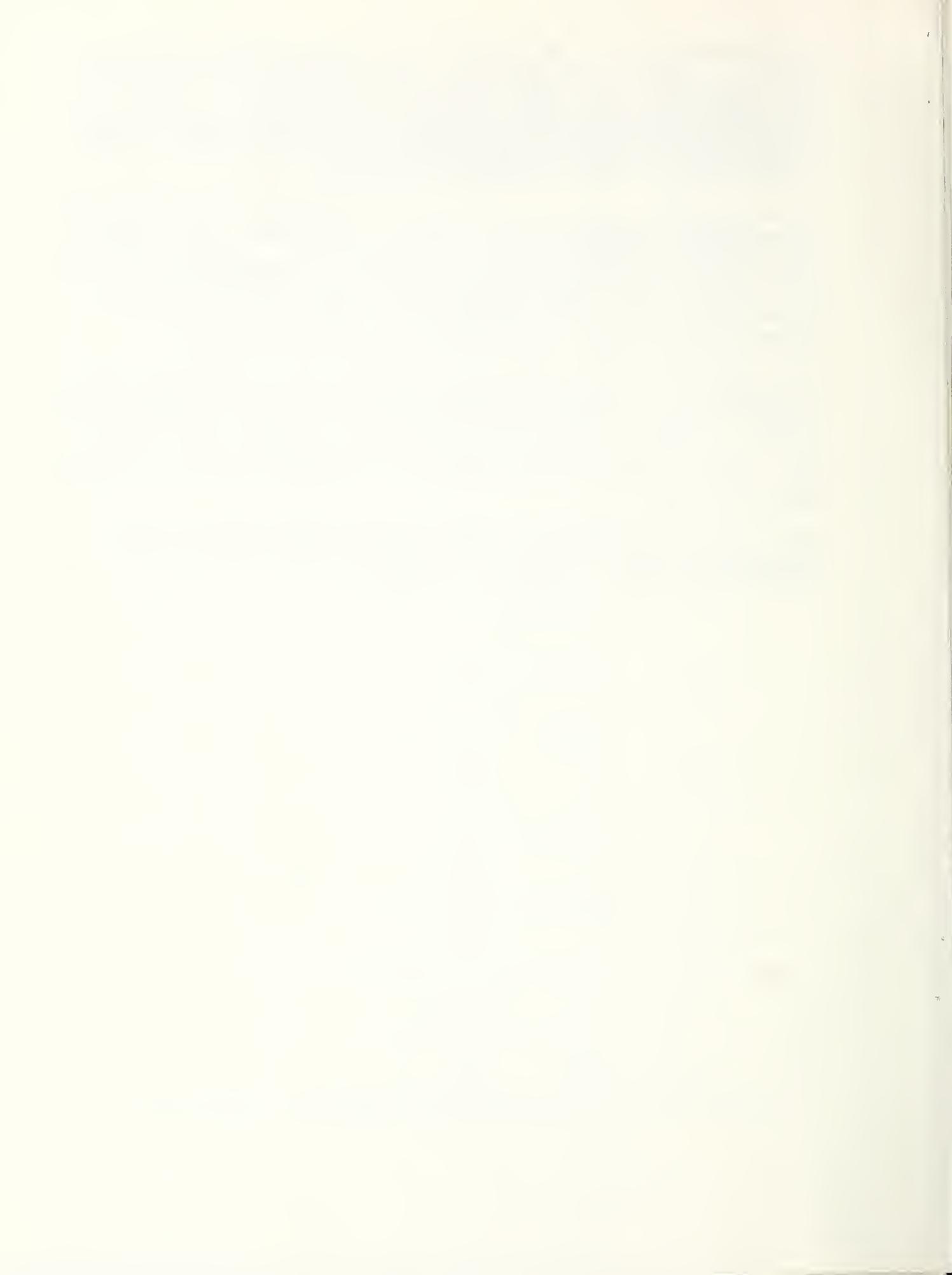
+ 1958-1972 period.

* The Wyoming Gage is a new device for accurately collecting rain and snowfall in windy unprotected areas. It was developed during the period 1969 through 1974 near Laramie, Wyoming, by the University of Wyoming and the United States Forest Service Forest and Range Experiment Station. The study area was a barren, wind swept ridge, similar to Alaska's tundra. During this period the new design consistently caught \pm 10 percent of the "control" gages located in protected areas nearby.

The basic configuration of the gage has two concentric rings of snow fences surrounding the orifice of the precipitation storage can. The 4 foot snow fence "mesh" is rigidly attached to a solid framework. The outer circle is ten feet off the ground and 20 feet in diameter; the inner circle is 8 feet off the ground and 10 feet in diameter. The level of the storage can orifice is 7 feet above the ground surface. A precipitation gage of any standard design, whether recording or non-recording can be used.

The Wyoming gage "works" during howling snow storms by creating a slight vacuum area within the fencing material which pulls down into the storage can the snow particles which might be traveling more nearly horizontal than vertical. Without the windscreen, the precipitation gage would collect only a small percent of falling snow during windy periods. During blowing snow conditions between storms, almost all of the moving material is passed beneath the gage.

The initial network of Wyoming gages on Alaska's north slope has been accomplished through the cooperative efforts of Arctic Gas Company and the University of Alaska's Geophysical Institute.



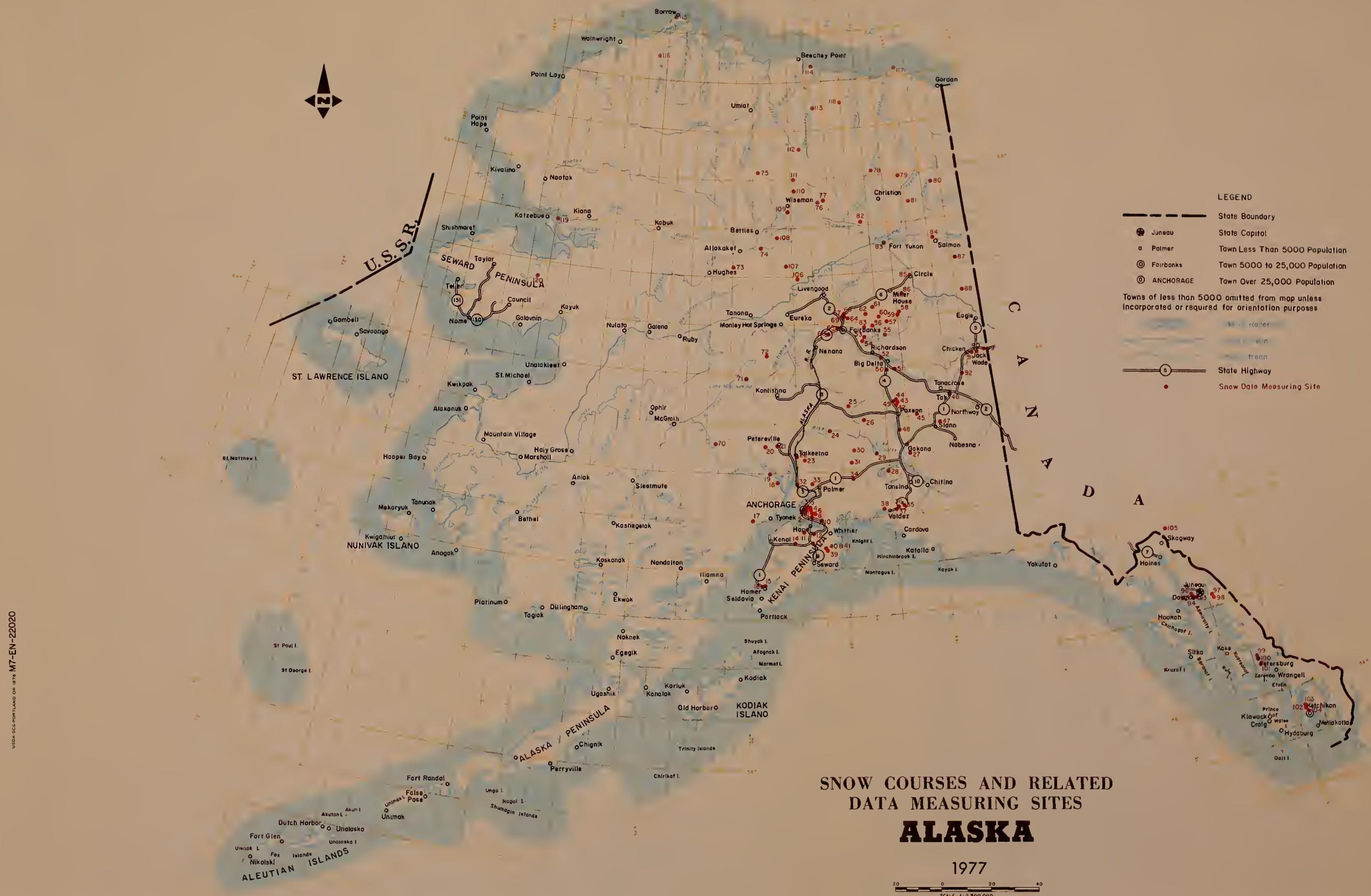


**SNOW COURSES AND RELATED
DATA MEASURING SITES**

ALASKA

1977

20 0 20 40
SCALE 1:2,500,000
ALBERS EQUAL AREA PROJECTION



INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *	MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c	76	Chandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c	77	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c	78	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c	79	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c	80	Coleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	49MM7MPS	1750	61°08'N	149°28'W	2,3,4,5	a	81	Vundik Lake	43SS1a	950	67°23'N	143°45'W	3,4	a
7	Indian Pasa	49MM8A	2350	61°05'N	149°29'W	2,3,4,5	a	82	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a	83	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	49MM11	1200	61°08'N	149°42'W	2,3,4,5	a	84	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	49LL15S	1200	60°57'N	149°05'W	2,3,4,5	a,b	85	Circle City	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a	86	Circle Hot Springs	44QQ5	860	65°29'N	144°39'W	3,4	a
12	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a	87	Dempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
13	Moose Pasa	49LL4	700	60°31'N	149°30'W	2,3,4,5	a	88	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	a
14	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a	89	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a	90	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a	91	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	a
17	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c	92	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c	93	Douglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
19	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c	94	Cropley Lake	34JJ2	1650	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c	95	Eagle Crest	34JJ3	1000	58°17'N	134°32'W	1,2,3,4	b
21	Petera Hilla	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c	96	Fish Creek	34JJ4	500	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c	97	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c	98	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	48NN2A	2250	62°47'N	148°29'W	2,3,4,5	a,c	99	Petersburg Reservoir	32HH1	550	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	47001A	2710	63°18'N	147°39'W	2,3,4,5	a,c	100	Mitkof Island	32HH2	1050	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c	101	Crystal Lake	32HH3	1375	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c	102	Harriet Top	31CC1	2000	55°29'N	131°37'W	3,4,5	b
28	St. Anne'a Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c	103	Hunt Saddle	31GG2	1500	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c	104	Lake Shore	31CC3	660	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c	105	Log Cabin (B.C.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c	106	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c	107	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a	108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	47MM2	2900	61°47'N	147°30'W	3,4,5	a	109	Cold Foot Camp	50SS1	1000	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a	110	Dietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a	111	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a	112	Toolik River	49TT1	3100	68°37'N	149°26'W	7	d
38	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a	113	Sagwon	48UU1	1000	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	g	114	Prudhoe Bay	48VV1	30	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	g	115	Barrow	56WW1	15	71°20'N	156°40'W	7	h
41	Wolverine Galcier C	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g	116	Meade River	57VV1	200	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	g	117	Barter Island	43VV1	15	70°08'N	143°37'W	7	h
43	Gulkana Clacier B	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	g	118	Kavik River	47UU1	200	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	45008	6360	63°19'N	145°29'W	5,6,7	g	119	Candle	61QQ1	20	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	44NN1	3050	63°00'N	146°32'W	2,3,4,5	z	120	Kugruk River	62001	225	65°40'N	162°27'W	3,4	a,f

LEGEND

* Numerals 1,2,3,4,5, and 6 refer to January 1, February 1, March 1, April 1, May 1, June 1, and 7 - for special dates.

* Letters refer to Agency that secures the snow survey, as follows:

* Letters refer to Agency that secures the snow survey, as

- a. Soil Conservation Service
- b. Forest Service
- c. U.S. Army Corps of Engineers
- d. U.S. Army Cold Regions Research & Engineering Lab
- e. Alaska Power Administration
- f. Bureau of Land Management
- g. U.S. Geological Survey
- h. University of Alaska
- i. Alaska Pipeline Office

* Letters following the snow course no. refer to:

- * Letters following the snow course number indicate the following:
 - * A. Snow course and aerial stadia marker
 - * a. Aerial stadia marker only
 - M. Soil Moisture Station
 - P. Precipitation Storage Gage
 - S. Snow Pillow

MAP NO.	COURSE NAME	LAT.	LONG.	MEAS. DATES *	MEAS. * BY
1	Arctic Valley #1	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	67°23'N	143°45'W	3,4	a
7	Indian Pass	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	65°29'N	144°39'W	3,4	a
12	Kenai Summit	66°06'N	141°48'W	3,4	a
13	Moose Pass	65°25'N	141°40'W	3,4	a
14	Jean Lake	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	64°05'N	141°45'W	3,4,7	a
17	McArthur	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	58°16'N	134°27'W	3,4,5	b
19	Skwentna	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	68°37'N	149°26'W	7	d
38	Valdez	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	65°40'N	162°27'W	3,4	a,f
46	Tok Junction				
47	Mentasta Pass				
48	Haggard Creek				
49	Fielding Lake				
50	Ft. Greely				
51	Granite Creek				
52	Big Delta				
53	French Creek				
54	Little Salcha				
55	Caribou Mine				
56	Munson Ridge				
57	Teuchet Creek				
58	Upper Chena			y 1, February 1, March 1, April 1,	
59	Lower Chena				
60	Monument Creek				
61	Mt. Ryan			snow survey, as follows:	
62	Little Chena				
63	Colorado Creek				
64	Cleary Summit				
65	Yak Pasture		Engineering Lab		
66	Bonanza Creek				
67	Haystack Mtn.				
68	Caribou Creek				
69	Poker Creek				
70	Farewell Lake				
71	Lake Minchumina				
72	Wien Lake			er to:	
73	Lake Todatonten			er	
74	Bettles Field				
75	Anaktuvuk Pass				

AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

FEDERAL

Department of Agriculture
Forest Service
Institute of Northern Forestry
North Tongass National Forest
South Tongass National Forest
Chugach National Forest

Department of Commerce
National Oceanic and Atmospheric Administration
NOAA National Weather Service

Department of Defense
U.S. Army Corps of Engineers
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior
Bureau of Land Management
Geological Survey
Alaska Power Administration

STATE

Alaska Department of Fish and Game
Alaska Department of Highways
Alaska Department of Natural Resources, Division of Parks

Alaska Soil Conservation District
Fairbanks Soil Conservation Sub-district
Homer Soil Conservation Sub-district
Kenai-Kasilof Soil Conservation Sub-district
Kenny Lake Soil Conservation Sub-district
Kodiak Soil Conservation Sub-district
Montana Soil Conservation Sub-district
Palmer Soil Conservation Sub-district
Salcha-Big Delta Soil Conservation Sub-district
Wasilla Soil Conservation Sub-district

University of Alaska

MUNICIPALITIES

Municipality of Anchorage

PRIVATE

Mt. Alyeska Resort, Inc.



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